



03-29-09 Engr? CC\$

PTO/SB/21 (08-03)

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<b>TRANSMITTAL FORM</b>  (to be used for all correspondence after initial filing)	Application Number	09/726,769	
	Filing Date	11/29/2000	
	First Named Inventor	Furman, et al.	
	Art Unit	1773	
	Examiner Name	Hoa T. Le	
Total Number of Pages in This Submission	9+	Attorney Docket Number	SWRI-2749-A

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Technology Center (TC)
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input type="checkbox"/> Amendment/Reply	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	1) 15 References
<input checked="" type="checkbox"/> Supplemental Information Disclosure Statement	<input type="checkbox"/> Request for Refund	2) Certificate of Mailing 37 CFR 1.10; and
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	3) Return Receipt Postcard.
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	<b>Remarks</b> The Commissioner is hereby authorized to charge any additional fees or credit any overpayments to Deposit Account No. 50-0997 (SWRI-2749-A), maintained by Paula D. Morris & Associates, P.C. d/b/a The Morris Law Firm, P.C.	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		
<b>SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT</b>		
Firm or Individual name	Paula D. Morris, Reg. No. 31,516	
Signature		
Date	3-25-04	

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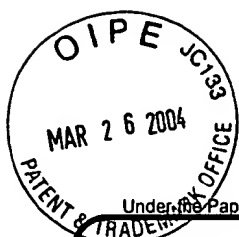
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Linda Sengvong  
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Transmittal form PTO/SB/21 [1 page], Fee Transmittal form PTO/SB/17 [1 page], Supplemental Information Disclosure Statement [1 page], PTO Form PTO/SB/08A [3 pages], PTO form PTO/SB/08B [1 page], Credit Card Payment Form PTO-2038 [1 page], 15 References and return receipt postcard.

<b>Applicant:</b>	<u>Furman, et al.</u>	<b>Group Art Unit:</b>	<u>1773</u>
<b>Serial No.:</b>	<u>09/726,769</u>	<b>Examiner:</b>	<u>Hoa T. Le</u>
<b>Filing Date:</b>	<u>11/29/2000</u>	<b>Atty. Docket No.:</b>	<u>SWRI-2749-A</u>
<b>Title:</b>	<u>Methods of Functionalizing and Functionalized Metal Oxide Particles and Mechanically Strong and Transparent or Translucent Composite Made Using Zirconium Oxide Nanoparticles</u>		



PTO/SB/17 (10-03)  
Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☒ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ ) 180.00

## Complete if Known

Application Number 09/726,769

Filing Date 11/29/2000

First Named Inventor Wellinghoff

Examiner Name Hoa T. Le

Art Unit 1773

Attorney Docket No. SWRI-2749-A

## METHOD OF PAYMENT (check all that apply)

☐ Check ☒ Credit card ☐ Money Order ☐ Other ☐ None

☐ Deposit Account:

Deposit  
Account  
Number  
Deposit  
Account  
Name

50-0997 (SWRI-2749-A)

Paula D. Morris & Assoc.

The Director is authorized to: (check all that apply)

☐ Charge fee(s) indicated below ☐ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	
SUBTOTAL (1)					(\$ ) 0.00

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

		Extra Claims		Fee from below		Fee Paid
Total Claims	<input type="text"/>	-20** =	<input type="text"/>	X	<input type="text"/>	= \$0.00
Independent Claims	<input type="text"/>	-3** =	<input type="text"/>	X	<input type="text"/>	= \$0.00
Multiple Dependent					<input type="text"/>	= <input type="text"/>

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1202	18	2202	9	Claims in excess of 20	
1201	86	2201	43	Independent claims in excess of 3	
1203	290	2203	145	Multiple dependent claim, if not paid	
1204	86	2204	43	** Reissue independent claims over original patent	
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)					(\$ ) 0.00

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	180.00
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ ) 180.00

## SUBMITTED BY

Name (Print/Type) Paula D. Morris

Registration No. 31,516  
(Attorney/Agent)

(Complete (if applicable))

Telephone 713.334.5151

Signature

*Paula D. Morris*

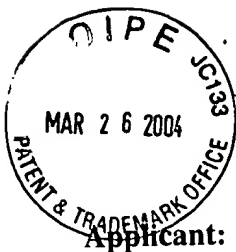
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Furman, et al. § Group Art Unit: 1773  
Serial No.: 09/726,769 § Examiner: Hoa T. Le  
Filed: 11/29/2000 § Atty. Docket No.: SWRI-2749-A  
Title: Methods of Functionalizing and Functionalized Metal Oxide Particles and  
Mechanically Strong and Transparent or Translucent Composites Made  
Using Zirconium Oxide Nanoparticles

Commissioner for Patents  
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Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Supplemental Information Disclosure Statement be entered and the references listed on the attached Forms PTO/SB/08A and PTO/SB/08B be considered by the Examiner and made of record.

This Supplemental Information Disclosure Statement is not to be considered as a representation that a search has been made or that no other material information as defined under 37 C.F.R. § 1.56 exists.

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03/30/2004 WABRHAM1 00000107 09726769

01 FC:1806

180.00 0P

Respectfully submitted,

Paula D. Morris, Registration No. 31,516  
The Morris Law Firm, PC  
10260 Westheimer, Suite 360  
Houston, Texas 77042-3110  
Telephone: (713) 334-5151  
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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 2

of

1

4

**Complete if Known**

Application Number	09/726,769
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Filing Date	11/29/2000
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First Named Inventor	Furman, et al.
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Art Unit	1773
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Examiner Name	Hoa T. Le
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Attorney Docket Number	SWRI-2749-A
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## U. S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

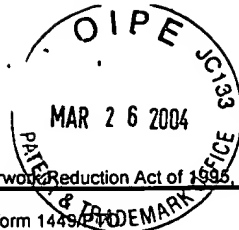
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)	MM-DD-YYYY			
		EP 0 242 278 A2	10-21-1987	U. of Illinois		
		WO 7901040	11-29-1979	Eastman Kodak		
		WO 9416129	07-21-1994	PPG Industries		
		EP 0 869 112 A1	03-17-1998	Daimler-Benz		
		EP 0159887 A2	10-30-1985	MINNESOTA MININ		
		EP 0722992 A1	07-24-1996	DEGUSSA AG		

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 4

**Complete if Known**

Application Number	09/726,769
Filing Date	11/29/2000
First Named Inventor	Furman, et al.
Art Unit	1773
Examiner Name	Hoa T. Le
Attorney Docket Number	SWRI-2749-A

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 5,024,850	06-18-1991	Broer , et al.	
		US- 5,871,665	02-16-1999	Coates, et al.	
		US- 5,989,461	11-23-1999	Coates , et al.	
		US- 6,060,042	05-09-2000	Schuhmacher , et al	
		US- 6,117,920	09-12-2000	Jolliffe , et al.	
		US- 6,136,225	10-24-2000	Meyer , et al.	
		US- 6,144,428	11-07-2000	Schadt , et al.	
		US- 6,217,792	04-17-2001	Parri , et al.	
		US- 6,217,955	04-17-2001	Coates , et al.	
		US- 6,291,035	09-18-2001	Verrall , et al.	
		US- 6,303,050	10-16-2001	Dannenhauer, et al.	
		US- 6,414,092	07-02-2002	Coates, et al.	
		US- 6,649,230	11-18-2003	Seiberle, et al.	
		US- 5,695,681	12-09-1997	Siemensmeyer et al.	
		US- 5,804,097	09-08-1998	Delavier et al.	
		US- 5,833,880	11-10-1998	Siemensmeyer et al.	
		US- 5,991,991	06-15-1999	Keller et al.	
		US- 6,087,816	07-11-2000	Volk	
		US- 6,335,462	01-01-2002	Etzbach	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known)				
		EP 1142863 A2	10-10-2001	BASF		
		JP5178794	07-20-1993	TOKUYAMA SODA CO		
		WO 9714674	04-24-97	DENTSPLY INT. IN		
		WO 9823580	04-06-1998	SCHUHMACHER PET		
		WO 9424052	10-27-1994	SOUTHWEST RES		
		GB 2 297 549 A	07-08-1996	Merck Patent Gm		

Examiner Signature	Date Considered
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**Complete if Known**

*(Use as many sheets as necessary)*

Sheet	3	of	4
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Application Number	09/726,769
Filing Date	11/29/2000
First Named Inventor	Furman, et al.
Art Unit	1773
Examiner Name	Hoa T. Le
Attorney Docket Number	SWRI-2749-A

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
		WO 92/16183	10-01-1992	THERA PATENT GM		
		WO 02/070543 A2	09-12-2002	UNIVERSITY OF TEXAS		

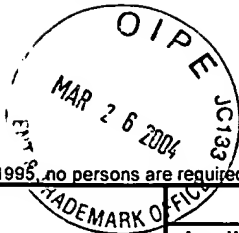
Examiner  
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Date  
Considered

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PTO/SB/08B (08-03)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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Application Number	09/726,769
Filing Date	11/29/2000
First Named Inventor	Furman, et al.
Art Unit	1773
Examiner Name	Hoa T. Le
Attorney Docket Number	SWRI-2749-A

Sheet 4 of 4

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		SCHMIDT, et al., New Liquid Crystalline di-and tetra- acrylates for network formation, Liquid Crystals, 2001, Vol 28, No. 11, 1611-1621.	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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